

Form PTO-1449  
(MODIFIED)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

029493/0138

SERIAL NO.

09/671,814

## INFORMATION DISCLOSURE CITATION

Date Filed: March 29, 2002

MAR 29 2002  
Use several sheets if necessary)

APPLICANT

Kaname KONO

FILING DATE

September 27, 2000

GROUP ART UNIT

1742

## U.S. PATENT DOCUMENTS

INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
AW	A1	2,386,966	10/1945	MacMILLIN			
	A2	2,505,540	4/1950	GOLDHARD			
	A3	2,529,146	11/1950	FEITL			
	A4	2,785,448	3/1957	HODLER			
	A5	3,048,892	08/1962	DAVIS, Jr. et al.			
	A6	3,106,002	10/1963	BAUER			
	A7	3,189,945	06/1965	STRAUSS			
	A8	3,201,836	08/1965	NYSELIUS			
	A9	3,254,377	06/1966	MORTON			
	A10	3,268,960	08/1966	MORTON			
	A11	3,270,383	09/1966	HALL et al.			
	A12	3,319,702	05/1967	HARTWIG et al.			
	A13	3,344,848	10/1967	HALL et al.			
	A14	3,447,593	06/1969	NYSELIUS et al.			
	A15	3,529,814	09/1970	WERNER			
	A16	3,550,207	12/1970	STRUSS			
	A17	3,693,702	09/1972	PIEKENBRINK et al.			
	A18	3,810,505	05/1974	CROSS			
	A19	3,814,170	06/1974	KAHN			
	A20	3,874,207	04/1975	LEMELSON			
	A21	3,893,792	07/1975	LACZKO			
	A22	3,902,544	09/1975	FLEMINGS et al.			
	A23	3,936,298	2/1976	MEHRABIAN et al.			
	A24	3,976,118	08/1976	KAHN			
	A25	4,049,040	09/1977	LYNCH			
	A26	4,088,178	05/1978	UENO et al.			
	A27	4,168,789	09/1979	DESHAIS et al.			
AW	A28	4,212,625	07/1980	SHULL			

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Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 029493/0138	SERIAL NO. 09/671,814
<b>Q1 INFORMATION DISCLOSURE CITATION</b> <i>MAR 29 2002</i> <i>JCC</i>		APPLICANT Kaname KONO	
<b>Date Filed:</b> March 29, 2002 (Use several sheets if necessary)		FILING DATE September 27, 2000	GROUP ART UNIT 1742

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
<i>pw</i>	B1	4,287,935	09/1981	UENO et al.			
	B2	4,330,026	05/1982	FINK			
	B3	4,347,889	09/1982	KOMATSU et al.			
	B4	4,434,839	03/1984	VOGEL			<i>RECEIVED APR 05 2002</i>
	B5	4,436,140	03/1984	EBISAWA et al.			<i>TC 1700</i>
	B6	4,473,103	09/1984	KENNEY et al.			
	B7	4,476,912	10/1984	IIARVILL			
	B8	4,510,987	04/1985	COLLOT			
	B9	4,534,403	08/1985	HARVILL			
	B10	4,537,242	08/1985	PRYOR et al.			
	B11	4,559,991	12/1985	MOTOMURA et al.			
	B12	4,586,560	05/1986	IKEYA et al.			
	B13	4,687,042	08/1987	YOUNG			
	B14	4,694,881	09/1987	BUSK			
	B15	4,694,882	09/1987	BUSK			
	B16	4,730,658	03/1988	NAKANO			
	B17	4,771,818	09/1988	KENNEY			
	B18	4,828,460	05/1989	SAITO et al.			
	B19	4,884,621	12/1989	BAN et al.			
	B20	4,997,027	03/1991	AKIMOTO			
	B21	5,040,589	08/1991	BRADLEY et al.			
	B22	5,143,141	09/1992	FRULLA			
	B23	5,144,998	09/1992	HIRAI et al.			
	B24	5,161,598	11/1992	IWAMOTO et al.			
	B25	5,181,551	01/1993	KIDD et al.			
	B26	5,186,236	02/1993	GABATHULER et al.			
	B27	5,205,338	04/1993	SHIMMELL			
<i>pw</i>	B28	5,244,033	09/1993	UENO			

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<b>O I INFORMATION DISCLOSURE CITATION</b> <b>Date Filed: March 29, 2002</b> <small>(Use several sheets if necessary)</small>		APPLICANT		Kaname KONO
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		September 27, 2000		1742

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
AW	C1	5,375,645	12/1994	BRUEKER et al.			
	C2	5,380,187	01/1995	FUJIKAWA			
	C3	5,394,931	03/1995	SHIINA et al.			
	C4	5,501,266	03/1996	WANG et al.			
	C5	5,531,261	07/1996	YOSHIDA et al.			RECEIVED APR 05 2002
	C6	5,533,562	07/1996	MOSCHINI et al.			
	C7	5,571,346	11/1996	BERGSMA			TC 1700
	C8	5,575,325	11/1996	SUGIURA et al.			
	C9	5,577,546	11/1996	KJAR et al.			
	C10	5,601,136	02/1997	SHIMMELL			
	C11	5,622,216	04/1997	BROWN			
	C12	5,623,984	04/1997	NOZAKI et al.			
	C13	5,630,463	05/1997	SHIMMELL			
	C14	5,630,466	05/1997	GARAT et al.			
	C15	5,638,889	06/1997	SUGIURA et al.			
	C16	5,657,812	08/1997	WALTER et al.			
	C17	5,662,159	09/1997	IWAMOTO et al.			
	C18	5,664,618	09/1997	KAI et al.			
	C19	5,665,302	09/1997	BENNI et al.			
	C20	5,680,894	10/1997	KILBERT			
	C21	5,685,357	11/1997	KATO et al.			
	C22	5,697,422	12/1997	RIGHI et al.			
	C23	5,697,425	12/1997	NANBA et al.			
	C24	5,701,942	12/1997	ADACHI et al.			
	C25	5,704,411	01/1998	SUZUKI et al.			
	C26	5,716,467	02/1998	MARDER et al.			
	C27	5,730,198	03/1998	SIRCAR			
AW	C28	5,730,202	03/1998	SHIMMELL			

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Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 029493/0138	SERIAL NO. 09/671, 814
O I P INFORMATION DISCLOSURE CITATION <i>29 2002 MAR 29 JC7</i>		APPLICANT Kaname KONO	
<u>Date Filed: March 29, 2002</u> (Use several sheets if necessary)		FILING DATE September 27, 2000	GROUP ART UNIT 1742

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
<i>AW</i>	D1	5,735,333	04/1998	NAGAWA			
	D2	5,836,372	11/1998	KONO			<i>RECEIVED APR 05 2002</i>
	D3	5,983,976	11/1999	KONO			
	D4	6,065,526	05/2000	KONO			
	D5	6,135,196	10/2000	KONO			
	D6	6,241,001 B1	06/2001	KONO			<i>TC 1700</i>
	D7	6,276,434 B1	08/2001	KONO			
	D8	6,283,197 B1	09/2001	KONO			
<i>AW</i>	D9	6,284,167 B1	09/2001	FUJIKAWA			

EXAMINER <i>MW</i>	DATE CONSIDERED <i>6/13/02</i>
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INFORMATION DISCLOSURE CITATION  <i>O/I/P APR 29 2002 SEARCHED &amp; INDEXED</i>		APPLICANT Kaname KONO	
		FILING DATE September 27, 2000	GROUP ART UNIT 1742
Date Filed: March 29, 2002 (Use several sheets if necessary)			

## FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						YES	NO
AV E1	0 476 843	03/1992	EPO				
	E2	0 761 344	03/1997	EU			
	E3	59-152826	08/1984	JP			
	E4	1-166874	06/1989	JP			
	E5	1-178345	07/1989	JP			
	E6	1-192447	08/1989	JP			
	E7	2-202420	08/1990	JP			
	E8	2-274360	01/1993	JP			
	E9	5-8017	01/1993	JP			
	E10	5-285626	11/1993	JP			
	E11	5-285627	11/1993	JP			
	E12	6-306507	11/1994	JP			
	E13	7-51827	02/1995	JP			
	E14	8-174172	07/1996	JP			
	E15	8-72110	03/1996	JP			
	E16	8-252661	10/1996	JP			
	E17	9-103859	04/1997	JP			
	E18	9-155524	06/1997	JP			
	E19	9-155526	06/1997	JP			
	E20	9-155527	06/1997	JP			
	E21	9-295122	11/1997	JP			
	E22	153528	03/1991	TA			
	E23	196 11 419	09/1996	DE			
	E24	1.447.606	11/1996	FR			
	E25	97/21509	06/1997	WIPO			
	E26	97/45218	12/1997	WIPO			
AV	E27	99/50007	10/1999	WIPO			

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INFORMATION DISCLOSURE CITATION <i>O I P E MAR 29 2002 JC76</i> Date Filed: March 29, 2002 (Use several sheets if necessary)		FILING DATE September 27, 2000	GROUP ART UNIT 1742	

## OTHER DOCUMENTS

*Please include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.*

AW	F1	MEHRABIAN et al., "Casting in the Liquid-Solid Region," <u>New Trends in Materials Processing</u> , papers presented at a seminar of American Society for Metals, Oct. 19 and 20, 1974, ASM, Metals Park, OH, pp. 98-127
	F2	FLEMINGS et al., "Rheocasting," <u>Challenges and Opportunities in Materials Science and Engineering (Anniversary Volume)</u> , vol. 25 (1976), Elsevier Sequoia S.A., Lausanne, pp. 103-117.
	F3	FLEMINGS et al., "Rheocasting," <u>McGraw-Hill Yearbook of Science and Technology, 1977</u> , McGraw-Hill Book Company, NY, pp. 49-58
	F4	LAXMANAN et al., "Deformation of Semi-Solid Sn-15 Pct. Pb Alloy," <u>Metallurgical Transactions A</u> , vol. 11A: no. 12, Dec. 1980, pp. 1927-1937,
	F5	MATSUMIYA et al., "Modeling of Continuous Strip Production by Rheocasting," <u>Metallurgical Transactions B</u> , vol. 12B, no. 1, Mar. 1981, pp. 17-31
	F6	SUERY et al., "Effect of Strain Rate on Deformation Behavior of Semi-Solid Dendritic Alloys," <u>Metallurgical Transactions A</u> , vol. 13A, no. 10: Oct., 1982, pp. 1809-1819
	F7	WORTHY, Ward, "Injection Molding of Magnesium Alloys," <u>Chemical &amp; Engineering News</u> , vol. 66, no. 23, June 6, 1988, pp. 29-30
	F8	TISSIER et al., "Magnesium rheocasting: a study of processing-microstructure interactions," <u>Journal of Materials Science</u> , vol. 25 (1990). Chapman and Hall Ltd., pp 1184-1196.
	F9	CARNAHAN et al., "New Manufacturing Process for Metal Matrix Composite Synthesis," <u>Fabrication of Particulates Reinforced Metal Composites</u> , Proceedings of an International Conference, Montreal, Quebec, Sep. 17-29, 1990, ASM International, Metals Park, Ohio, pp 101-105.
	F10	FLEMINGS, "Behavior of Metal Alloys in the Semisolid State," <u>Metallurgical Transactions B</u> , vol. 22B, no. 3, Jun 1991, pp 269-293
	F11	PASTERNAK et al., "Semi-Solid Production Processing of Magnesium Alloys by Thixomolding," Proceedings of the Second International Conference on the Semi-Solid Processing of Alloys and Composites, MIT, Cambridge, MA, June 10-12, 1992, TMS, Warrendale, PA, pp. 159-169.
	F12	BROWN et al., "Net Shape Forming via Semi-Solid Processing," <u>Advanced Materials &amp; Processes</u> , vol. 143, no. 1, Jan. 1993, ASM International, Metals Park, OH, pp 36-40
	F13	CARNANAN et al., "Advances in Thixomolding," 52nd Annual World Magnesium Conference, Berlin, Germany, May 17-19, 1994
	F14	FUJIKAWA, Misao, Conference Material, Sodick Plastech Co., Ltd., July 1995, pp 1-14
	F15	Staff Report, "Semi-Solid Metalcasting Gains Acceptance, Applications," <u>Foundry Management &amp; Technology</u> , Nov. 1995, Japan, pp. 23-26
	F16	Tuparl Injection Molding Machine Advertisement, Sodick Plastech Co., Ltd., May 1997
	F17	"Plastic Processing Technology Book," Published in Japan (ISBN 4-526-00035-3)
AW	F18	Material Science & Technology Textbook, Fig. 1-67(b), p 52

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